

NATIONAL PROJECTS CONSTRUCTION CORPORATION LIMITED
(A Government Of India Enterprise)

ISO 9001:2000

Regd. Office: 30-31, Raja House, Nehru Place, New Delhi – 110 019

Corp. Office: Plot No. 67-68, Sector-25, Faridabad – 121 004

www.npcc.gov.in

**TENDER FOR CONSTRUCTION OF
HATHIARI SURFACE POWER HOUSE & SWITCH YARD AT
DISTRICT DEHRADUN, UTTRAKHAND.**

.



VOLUME: III



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VOLUME: III

DRAWINGS

Issued to

M/s

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Tender Drawings may be seen in the
Office of General Manager (CM&W) at
NPCC Ltd. corporate Office,
67, 68 Sector-25, Faridabad
Haryana - 121 004

Or

Dehradun Office of NPCC

NATIONAL PROJECTS CONSTRUCTION CORPORATION LIMITED
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ISO 9001:2008

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VOLUME: IV



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VOLUME: IV

PRICE BID

Issued to :-

M/s
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VYASI HYDRO ELECTRIC PROJECT						
SCHEDULE OF QUANTITIES						
POWER HOUSE & SWITCH YARD						
SL. No.	Item of Works	Approx. Balance Quantity	Unit	Rates		
				Rates (In Fig)	Rate (in words)	Amount (Balance)
1	2	3	4	5	6	7
2	Open excavation:	66000	cum	324.00	Rupees Three hundred Twenty Four Only	21384000.00
3	Extra for lead beyond 1 Km of above item no.2 for every	0	cum	6.74	Rupees Six Paise Seventy Four Only	0.00
4	Shoring & Limbering :	50	sqm	340.20	Rupees Three hundred Forty Paise Twenty Only	17010.00
5	Excavation in shaft in foundation faults & seams:	60	cum	1690.20	Rupees One Thousand Six hundred Ninety Paise Twenty Only	101412.00
6	Foundation preparation:	2000	sqm	102.60	Rupees One hundred Two Paise Sixty Only	205200.00
7	Line drilling & breaching holes for rock excavation :	230	sqm	675.00	Rupees Six hundred Seventy Five Only	155250.00
9	Excavation of galleries	0	cum	1814.40	Rupees One Thousand Eight hundred Fourteen Paise Forty Only	0.00
14	Shotcreting:	2000	Per bag	690.40	Rupees Six hundred Ninety Paise Forty Only	1380800.00
15	Guniting :	500	Per bag	745.20	Rupees Seven hundred Forty Five Paise Twenty Only	372600.00
16	Supplying & fixing 25 mm dia. rock bolts upto 5m depth:	1570	M	448.20	Rupees Four hundred Forty Eight Paise Twenty Only	703674.00
17	S/F 25 mm dia perfo bolts upto 5m depth,	200	M	540.00	Rupees Five hundred Forty Only	108000.00
18	Drilling holes for rock bolts/perfo bolts, unto 5 m depth:	1700	M	372.60	Rupees Three hundred Seventy Two Paise Sixty Only	633420.00
19	Furnishing & installing chain link fabric:	3000	sqm	507.60	Rupees Five hundred Seven Paise Sixty Only	1522800.00
20	Rock Fill:	100	cum	507.60	Rupees Five hundred Seven Paise Sixty Only	50760.00
21	Uncompacted backfill:	0	cum	340.20	Rupees Three hundred Forty Paise Twenty Only	0.00
22	Compacted backfill:	200	cum	502.20	Rupees Five hundred Two Paise Twenty Only	100440.00
23	Filter blanket:	1500	cum	1053.00	Rupees One Thousand Fifty Three Only	1579500.00
24	Boulder pitching:	3000	cum	513.00	Rupees Five hundred Thirteen Only	1539000.00

25	Gravel or crushed stone surfacing:	50	cum	664.20	Rupees Six hundred Sixty Four Paise Twenty Only	33210.00
26	Core drilling NX hole in depth 0 to 20m:	50	M	3375.00	Rupees Three Thousand Three hundred Seventy Five Only	168750.00
27	Core drilling NX Hole in depth 20 to 40m;	50	M	3510.00	Rupees Three Thousand Five hundred Ten Only	175500.00
28	Core drilling NX Hole in depth 40 to 60 m;	30	M	3709.80	Rupees Three Thousand Seven hundred Nine Paise Eighty Only	111294.00
29	Core drilling BX Hole in depth 0 to 20 m;	50	M	3240.00	Rupees Three Thousand Two hundred Forty Only	162000.00
30	Core drilling BX Hole in depth 20 to 40m;	30	M	3375.00	Rupees Three Thousand Three hundred Seventy Five Only	101250.00
31	Core drilling BX Hole in depth 40 to 60m;	30	M	3510.00	Rupees Three Thousand Five hundred Ten Only	105300.00
32	Core drilling AX Hole in depth 0 to 20m;	50	M	3040.20	Rupees Three Thousand Forty Paise Twenty Only	152010.00
33	Core drilling AX Hole in depth 20 to 40m;	30	M	3407.40	Rupees Three Thousand Four hundred Seven Paise Forty Only	102222.00
34	Core drilling AX Hole in depth 40 to 60m;	30	M	3780.00	Rupees Three Thousand Seven hundred Eighty Only	113400.00
39	Concrete in foundation & drainage galleries	500	cum	3072.60	Rupees Three Thousand Seventy Two Paise Sixty Only	1536300.00
40	Concrete in substructure of PH below turbine floor	20000	cum	4278.40	Rupees Four Thousand Two hundred Seventy Eight Paise Forty Only	85568000.00
41	Concrete in superstructure of PH above turbine floor	4500	cum	2948.40	Rupees Two Thousand Nine hundred Forty Eight Paise Forty Only	13267800.00
42	Concrete in retaining wall:	5451.61	cum	2959.20	Rupees Two Thousand Nine hundred Fifty Nine Paise Twenty Only	16132404.31
43	Concrete in blocks :	2000	cum	3105.00	Rupees Three Thousand One hundred Five Only	6210000.00
45	Concrete in Switchyard structure:	3500	cum	3105.00	Rupees Three Thousand One hundred Five Only	10867500.00
44	Concrete in blockouts:	200	cum	4185.00	Rupees Four Thousand One hundred Eighty Five Only	837000.00
47	Concrete in parapets & lamp posts:	100	cum	4050.00	Rupees Four Thousand Fifty Only	405000.00
48	Concrete in other underground structures:	1485.69	cum	3375.00	Rupees Three Thousand Three hundred Seventy Five Only	5014203.75
49	Concrete in other structures:	100	cum	3105.00	Rupees Three Thousand One hundred Five Only	310500.00

50	Porous concrete:	50	cum	3375.00	Rupees Three Thousand Three hundred Seventy Five Only	168750.00
51	Furnishing & placing reinforcement,	5366	T	39420.80	Rupees Thirty Nine Thousand Four hundred Twenty Paise Eighty Only	211532012.80
56	F/I black steel pipes & fitting for grout & drainage holes:	15554.90	Kg	54.00	Rupees Fifty Four Only	839964.60
57	Pressure grouting inclusive of cost of cement :	3000	Per bag of cement	640.80	Rupees Six hundred Forty Paise Eighty Only	1922400.00
58	Pressure grouting with packers inclusive of cost of cement:	250	Per bag of cement	810.00	Rupees Eight hundred Ten Only	202500.00
59	F/I pipe plugs of heavy plastic:	10	Kg	1015.20	Rupees One Thousand Fifteen Paise Twenty Only	10152.00
60	F/I pipe plugs of bronze:	10	Kg	1350.00	Rupees One Thousand Three hundred Fifty Only	13500.00
61	Coarsed rubble stone masonry:	100	cum	2565.00	Rupees Two Thousand Five hundred Sixty Five Only	256500.00
62	Random rubble stone masonry:	27751.10	cum	1809.60	Rupees One Thousand Eight hundred Nine Paise Sixty Only	50218390.56
63	Random rubble stone masonry(dry) :	2927.21	cum	831.60	Rupees Eight hundred Thirty One Paise Sixty Only	2434267.84
64	Cement plaster over masonry:	1500	sqm	270.00	Rupees Two hundred Seventy Only	405000.00
65	Cement plaster over concrete surface:	500	sqm	205.20	Rupees Two hundred Five Paise Twenty Only	102600.00
66	Cement pointing :	500	sqm	124.20	Rupees One hundred Twenty Four Paise Twenty Only	62100.00
67	Constructing bonded concrete floor finish:	2700	sqm	675.00	Rupees Six hundred Seventy Five Only	1822500.00
68	Constructing wall base finish on walls:	200	sqm	1015.20	Rupees One Thousand Fifteen Paise Twenty Only	203040.00
69	F/I quarry tile floor:	200	sqm	1485.00	Rupees One Thousand Four hundred Eighty Five Only	297000.00
70	F/I marble tile floor:	200	sqm	1620.00	Rupees One Thousand Six hundred Twenty Only	324000.00
71	F/I mosaic tile floor:	200	sqm	1080.00	Rupees One Thousand Eighty Only	216000.00
72	F/I hardonate tile floor:	1000	sqm	1485.00	Rupees One Thousand Four hundred Eighty Five Only	1485000.00
73	F/I acid resistant tile floor:	100	sqm	4320.00	Rupees Four Thousand Three hundred Twenty Only	432000.00

74	Constructing tarrazo flooring:	500	sqm	891.00	Rupees Eight hundred Ninety One Only	445500.00
75	F/I Aluminium door, windows & partition walls:	2000	Kg	540.00	Rupees Five hundred Forty Only	1080000.00
76	F/I suspended falls ceiling with aluminium frame & acoustical tiles:	500	sqm	2160.00	Rupees Two Thousand One hundred Sixty Only	1080000.00
77	Drilling 40 mm dia holes for anchor bars & grouting bars in place:	3000	M	675.00	Rupees Six hundred Seventy Five Only	2025000.00
78	Drilling 75 mm dia holes for anchor bars & grouting bars in place:	100	M	2905.20	Rupees Two Thousand Nine hundred Five Paise Twenty Only	290520.00
79	Finishing & placing coaltar saturated felt roof	400	sqm	1350.00	Rupees One Thousand Three hundred Fifty Only	540000.00
80	Furnishing & placing 5 ply membrances water proofing :	400	sqm	810.00	Rupees Eight hundred Ten Only	324000.00
81	Foam concrete in slabs for heat insulation :	50	cum	4860.00	Rupees Four Thousand Eight hundred Sixty Only	243000.00
82	Furnishing and applying asphalt emulsion damp proofing compound:	400	sqm	610.20	Rupees Six hundred Ten Paise Twenty Only	244080.00
83	Furnishing and applying clear damp proofing compound:	200	sqm	270.00	Rupees Two hundred Seventy Only	54000.00
84	Drilling 75 mm dia drainage holes in stages between 0-10 m depth:	100	M	1620.00	Rupees One Thousand Six hundred Twenty Only	162000.00
85	Drilling 50 mm dia drainage holes in stages between 0-10 m depth	100	M	1350.00	Rupees One Thousand Three hundred Fifty Only	135000.00
86	F/I Sewer pipe drains with uncemented joints:	100	M	1350.00	Rupees One Thousand Three hundred Fifty Only	135000.00
87	F/I Sewer pipe drains with cemented joints:	100	M	1350.00	Rupees One Thousand Three hundred Fifty Only	135000.00
88	F/I half round 20 cm dia. concrete pipe.	100	M	507.60	Rupees Five hundred Seven Paise Sixty Only	50760.00
89	F/I half round 30 cm dia concrete pipe	100	M	610.20	Rupees Six hundred Ten Paise Twenty Only	61020.00
90	F/I half round 45 cm dia concrete	100	M	745.20	Rupees Seven hundred Forty Five Paise Twenty Only	74520.00
91	Constructing 15 cm dia formed drains:	100	M	540.00	Rupees Five hundred Forty Only	54000.00
92	F/P copper sealing strips:	2000	Kg	572.40	Rupees Five hundred Seventy Two Paise Forty Only	1144800.00
93	F/P225mm hollow bulb dumbbell type rubber water stops	500	M	1161.00	Rupees One Thousand One hundred Sixty One Only	580500.00

94	F/P 150mm hollow bulb dumbbell type rubber water stops	200	M	945.00	Rupees Nine hundred Forty Five Only	189000.00
95	F/P rubber joint strips metal straps :	300	M	1015.20	Rupees One Thousand Fifteen Paise Twenty Only	304560.00
96	F/P rubber joint strips without metal straps :	200	M	945.00	Rupees Nine hundred Forty Five Only	189000.00
97	Constructing asphalt seals:	500	M	610.20	Rupees Six hundred Ten Paise Twenty Only	305100.00
98	F/P resilient type joint filler	600	sqm	1015.20	Rupees One Thousand Fifteen Paise Twenty Only	609120.00
99	F/P premoulded bituminous fiber joints filler	20	sqm	1182.60	Rupees One Thousand One hundred Eighty Two Paise Sixty Only	23652.00
100	F/I misc. embadded metal & metal work	40000	Kg	70.20	Rupees Seventy Paise Twenty Only	2808000.00
101	F/I steel doors, sash & louvers	1500	Kg	124.20	Rupees One hundred Twenty Four Paise Twenty Only	186300.00
102	F/I steel fiber doors:	1000	Kg	167.40	Rupees One hundred Sixty Seven Paise Forty Only	167400.00
103	F/I rolling steel doors:	3000	Kg	135.00	Rupees One hundred Thirty Five Only	405000.00
104	F/I stairways, stairtreads & handrails of steel:	1000	Kg	75.60	Rupees Seventy Five Paise Sixty Only	75600.00
105	F/I stairways, stairtreads & handrails of aluminium:	500	Kg	302.40	Rupees Three hundred Two Paise Forty Only	151200.00
106	Installing electric drinking water coolers:	2	Each	3375.00	Rupees Three Thousand Three hundred Seventy Five Only	6750.00
107	Installing water closets:	4	Each	2025.00	Rupees Two Thousand Twenty Five Only	8100.00
108	Installing urinals:	8	Each	1350.00	Rupees One Thousand Three hundred Fifty Only	2700.00
109	Installing service sinks:	2	Each	1350.00	Rupees One Thousand Three hundred Fifty Only	2700.00
110	Installing wash hand basins:	4	Each	2025.00	Rupees Two Thousand Twenty Five Only	8100.00
111	F/I embedded electrical metal conduits 32mm or less in dia:	100	M	302.40	Rupees Three hundred Two Paise Forty Only	30240.00
112	F/I embedded electrical metal conduits larger than 32mm but not larger than 75mm in dia:	200	M	610.20	Rupees Six hundred Ten Paise Twenty Only	122040.00
113	F/I ground wires & ground rods:	2500	Kg	540.00	Rupees Five hundred Forty Only	1350000.00

114	Installing strain gauge stress meter, strain meter, piezometer cell and pressure cell:	10	Each instrument	6750.00	Rupees Six Thousand Seven hundred Fifty Only	67500.00
115	Installing electrical cables for strain meter, piezometer cell and pressure cell embedded in concrete:	50	M	405.00	Rupees Four hundred Five Only	20250.00
116	Painting plaster surface:	1000	sqm	135.00	Rupees One hundred Thirty Five Only	135000.00
117	Painting concrete surface:	4000	sqm	135.00	Rupees One hundred Thirty Five Only	540000.00
118	Progress photographs(the rate shall include for 1 negative and 4 prints approx. size 165x115mm.)	400	Each	340.20	Rupees Three hundred Forty Paise Twenty Only	136080.00
119	Progress cine film 16mm edited, coloured all as directed:	1000	M	2025.00	Rupees Two Thousand Twenty Five Only	2025000.00
127	Installing pump in sump in foundation and drainage gallery of PH	4	Each	67500.00	Rupees Sixty Seven Thousand Five hundred Only	270000.00
128	F/I pipes fittings and valves less than 150mm in dia:	10000	Kg	135.00	Rupees One hundred Thirty Five Only	1350000.00
129	F/I black steel pipes fittings and valves less than 150mm in dia:	1000	Kg	129.60	Rupees One hundred Twenty Nine Paise Sixty Only	129600.00
130	F/I cast iron pipes fittings and valves less than 150mm in dia:	1000	Kg	124.20	Rupees One hundred Twenty Four Paise Twenty Only	124200.00
131	F/I pipes fittings and valves 150mm & above in dia:	6000	Kg	270.00	Rupees Two hundred Seventy Only	1620000.00
132	F/I black steel pipes fittings and valves 150mm or above in dia:	12000	Kg	270.00	Rupees Two hundred Seventy Only	3240000.00
133	F/I cast iron pipes fittings and valves 150mm or above in dia:	500	Kg	167.40	Rupees One hundred Sixty Seven Paise Forty Only	83700.00
134	F/I structural steel roofing	70000	Kg	64.80	Rupees Sixty Four Paise Eighty Only	4536000.00
135	Fixing 22 gauge C.G.I sheet roofing in PH including ridges and excluding cost of G.C sheets	1000	sqm	270.00	Rupees Two hundred Seventy Only	270000.00
136	Fabrication and installing 18 gauge G.P sheet gutter excluding cost of G.P sheet:	1000	Kg	27.00	Rupees Twenty Seven Only	27000.00
				Total		474,552,780

To be filled by the tenderer

ESTIMATED COST OF ALL ABOVE ITEMS

Rs. 474,552,780/-

OFFER OF THE AGENCY -%

(In words.....Percentage)

ABOVE / AT PAR / BELOW THE ESTIMATED COST OF ALL ABOVE ITEMS.

TOTAL OFFER :-

Amount in Figure

Amount in words

NOTE:

1. The " Minus / At par / Plus percentage" quoted by the tenderer shall be unique and will be applicable for all items of works for any area awarded to successful tenderer.
2. The tenderer is advised to strike off clearly the words not required to the quoting on tendered rates.
For example:- in case of tendered rates are - at par then strike off " Above / At par / Be

Dated Signature of authorised representative of
tenderer

Name of authorised representative of tenderer

(Seal)